

10/538066

SEQUENCE LISTING

JC17 Rec'd PCT/PTO 09 JUN 2005

<110> Epimmune Inc.

<120> HLA-A1, -A2, -A3, -A24, -B7, and -B44 Tumor Associated Antigen
Peptides and Compositions

<130> 2060.015PC06

<140> PCT/US03/038949

<141> 2003-12-10

<150> US 60/432,017

<151> 2002-12-10

<160> 767

<170> PatentIn version 3.2

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<223> Xaa may be Trp, Tyr, His or Asn

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His Thr Gln Val Leu Phe Ile Ala Lys
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Lys Ile Arg Lys Tyr Thr Met Arg Lys
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Met Ala Leu Glu Ser Ile Leu Arg Arg
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Met Val Leu Glu Ser Ile Leu Arg Lys
1 5

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Leu Val Ser Glu Phe Ser Arg Met Ala Lys
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Ala Ser Pro Leu Asp Ser Thr Phe Tyr Arg
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Ser Ser Phe Ser Thr Thr Ile Asn Tyr
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Ser Ser Phe Ser Thr Thr Ile Asn Lys
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Ser Val Phe Ser Thr Thr Ile Asn Lys
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Ser Val Phe Ser Thr Thr Ile Asn Arg
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Ser Thr Thr Ile Asn Tyr Thr Leu Trp Lys
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Thr Thr Ile Asn Tyr Thr Leu Trp Arg
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Thr Val Ile Asn Tyr Thr Leu Trp Lys
1 5

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Leu Val His Phe Leu Leu Leu Lys
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1 5

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1 5

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Ser Val Phe Ala His Pro Arg Lys
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Ala Leu Ile Glu Thr Ser Tyr Val Lys
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Ala Val Ile Glu Thr Ser Tyr Val Lys
1 5

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Ala Val Ile Glu Thr Ser Tyr Val Arg
1 5

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Ile Ser Tyr Pro Pro Leu His Glu Arg

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1 5

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Ile Val Tyr Pro Pro Leu His Glu Lys
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Tyr Val Phe Pro Val Ile Phe Ser Lys
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Tyr Val Phe Pro Val Ile Phe Ser Arg
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Ser Val Leu Glu Val Phe Glu Gly Arg
1 5

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Ser Val Leu Glu Val Phe Glu Gly Lys
1 5

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Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Lys
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Lys Val Tyr Gln Gly Ser Tyr Gly Phe Arg
1 5 10

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Lys Val Tyr Gln Gly Ser Tyr Gly Phe Lys
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Cys Thr Tyr Ser Pro Ala Leu Asn Lys
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<400> 110

Lys Met Phe Cys Gln Leu Ala Lys
1 5

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Gly Thr Arg Val Arg Ala Met Ala Ile Tyr Lys
1 5 10

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Gly Val Arg Val Arg Ala Met Ala Ile Tyr Lys
1 5 10

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Arg Val Arg Ala Met Ala Ile Tyr Lys
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Arg Val Arg Ala Met Ala Ile Tyr Arg
1 5

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Val Val Arg Arg Cys Pro His His Glu Arg
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Ser Ser Cys Met Gly Gly Met Asn Arg
1 5

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1 5

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<400> 121

Ser Ser Cys Met Gly Gly Met Asn Arg Arg
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Ser Ser Xaa Met Gly Gly Met Asn Arg Lys
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Ser Val Xaa Met Gly Gly Met Asn Arg Lys
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Arg Val Cys Ala Cys Pro Gly Arg Asp Arg Arg
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Ser Thr Ser Arg His Lys Lys Leu Met Phe Lys
1 5 10

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Ser Val Ser Arg His Lys Lys Leu Met Phe Lys
1 5 10

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Ser Val Ser Arg His Lys Lys Leu Met Phe Arg
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1 5 10

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Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr
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His Ala Ala Ser Asn Pro Pro Ala Gln Tyr
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Ala Ala Asp Asn Pro Pro Ala Gln Tyr
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Ile Thr Glu Lys Asn Ser Gly Leu Tyr
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Ile Thr Asp Lys Asn Ser Gly Leu Tyr
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His	Thr	Ala	Ser	Asn	Pro	Ser	Pro	Gln	Tyr
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Val Met Asp Gly Val Gly Ser Pro Tyr
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Cys Met Gln Ile Ala Lys Gly Met Ser Tyr
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Cys Thr Gln Ile Ala Lys Gly Met Ser Tyr
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Leu Thr Asp Ile Asp Glu Thr Glu Tyr
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Phe Thr His Gln Ser Asp Val Trp Ser Tyr
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Phe	Thr	Asp	Gln	Ser	Asp	Val	Trp	Ser	Tyr
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Pro	Ala	Ser	Pro	Leu	Asp	Ser	Thr	Phe	Tyr
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Pro	Ala	Asp	Pro	Leu	Asp	Ser	Thr	Phe	Tyr
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Ala	Ser	Pro	Leu	Asp	Ser	Thr	Phe	Tyr
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Met Thr Asp Leu Val Asp Ala Glu Glu Tyr
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Leu Thr Cys Ser Pro Gln Pro Glu Tyr
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Leu Thr Asp Ser Pro Gln Pro Glu Tyr
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Phe Ser Pro Ala Phe Asp Asn Leu Tyr Tyr
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Phe Thr Pro Ala Phe Asp Asn Leu Tyr Tyr
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Phe Ser Pro Ala Phe Asp Asn Leu Tyr
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Phe Thr Pro Ala Phe Asp Asn Leu Tyr
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Ser Pro Ala Phe Asp Asn Leu Tyr Tyr
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Ser Pro Asp Phe Asp Asn Leu Tyr Tyr
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Ser Ser Phe Ser Thr Thr Ile Asn Tyr
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Ser Thr Phe Ser Thr Thr Ile Asn Tyr
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Gly Ser Val Val Gly Asn Trp Gln Tyr
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Val Gly Ser Asp Cys Thr Thr Ile His Tyr
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Gly Ser Asp Cys Thr Thr Ile His Tyr
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Gly Thr Asp Cys Thr Thr Ile His Tyr
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Gly Ser Asp Cys Thr Thr Ile His Tyr Asn Tyr
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Arg Tyr Cys Ile Pro Trp Gln Arg Phe
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Ile Tyr Pro Asn Ala Ser Leu Leu Phe
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Val Tyr Pro Glu Leu Pro Lys Pro Ser Phe
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Leu Tyr Trp Val Asn Asn Gln Ser Phe
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Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu
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Thr Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu
1 5 10

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Leu Trp Trp Val Asn Gly Gln Ser Leu
1 5

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Leu Tyr Trp Val Asn Gly Gln Ser Phe
1 5

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Leu Tyr Gly Pro Asp Thr Pro Ile Ile
1 5

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Ser Tyr Leu Ser Gly Ala Asn Leu Asn Leu
1 5 10

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Ser Tyr Leu Ser Gly Ala Asn Leu Asn Phe
1 5 10

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Gln Tyr Ser Trp Arg Ile Asn Gly Ile
1 5

<210> 289
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<400> 289

Gln Tyr Ser Trp Arg Ile Asn Gly Phe
1 5

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Thr Tyr Ala Cys Phe Val Ser Asn Leu
1 5

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Thr Tyr Ala Cys Phe Val Ser Asn Phe

1 5

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Pro Tyr Val Ser Arg Leu Leu Gly Ile
1 5

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Pro Tyr Val Ser Arg Leu Leu Gly Phe
1 5

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Pro Tyr Val Ser Arg Leu Leu Gly Ile Cys Leu
1 5 10

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Gly Met Ser Tyr Leu Glu Asp Val Arg Leu
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Gly Tyr Ser Tyr Leu Glu Asp Val Arg Phe
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Lys Trp Met Ala Leu Glu Ser Ile Leu
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Lys Tyr Met Ala Leu Glu Ser Ile Phe
1 5

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Arg Phe Thr His Gln Ser Asp Val Trp
1 5

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Arg Tyr Thr His Gln Ser Asp Val Phe
1 5

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Val Trp Ser Tyr Gly Val Thr Val Trp
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Val Tyr Ser Tyr Gly Val Thr Val Phe
1 5

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Val Trp Ser Tyr Gly Val Thr Val Trp Glu Leu
1 5 10

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Ser Tyr Gly Val Thr Val Trp Glu Leu
1 5

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Ser Tyr Gly Val Thr Val Trp Glu Phe
1 5

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Val Tyr Met Ile Met Val Lys Cys Trp
1 5

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Val Tyr Met Ile Met Val Lys Cys Phe
1 5

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Val Tyr Met Ile Met Val Lys Cys Trp Met Ile
1 5 10

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<400> 309

Arg Phe Arg Glu Leu Val Ser Glu Phe
1 5

<210> 310

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<400> 310

Arg Tyr Arg Glu Leu Val Ser Glu Phe
1 5

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<400> 311

Arg Met Ala Arg Asp Pro Gln Arg Phe
1 5

<210> 312

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<400> 312

Arg Tyr Ala Arg Asp Pro Gln Arg Phe
1 5

<210> 313

<211> 11

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<400> 313

Ser Phe Ser Thr Thr Ile Asn Tyr Thr Leu Trp
1 5 10

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<400> 314

Ser Tyr Ser Thr Thr Ile Asn Tyr Thr Phe
1 5 10

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<400> 315

Met Phe Pro Asp Leu Glu Ser Glu Phe
1 5

<210> 316
<211> 9
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<400> 316

Met Tyr Pro Asp Leu Glu Ser Glu Phe
1 5

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<400> 317

Lys Met Val Glu Leu Val His Phe Leu
1 5

<210> 318
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Lys Tyr Val Glu Leu Val His Phe Phe
1 5

<210> 319
<211> 11
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<400> 319

Ile Phe Ser Lys Ala Ser Glu Tyr Leu Gln Leu
1 5 10

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<400> 320

Ile Tyr Ser Lys Ala Ser Glu Tyr Phe
1 5

<210> 321

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Glu Tyr Leu Gln Leu Val Phe Gly Ile
1 5

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<400> 322

Glu Tyr Leu Gln Leu Val Phe Gly Phe
1 5

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<211> 10

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<400> 323

Leu Tyr Ile Leu Val Thr Cys Leu Gly Leu
1 5 10

<210> 324

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Leu Tyr Ile Leu Val Thr Cys Leu Gly Phe
1 5 10

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Val Met Pro Lys Thr Gly Leu Leu Ile
1 5

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Val Tyr Pro Lys Thr Gly Leu Leu Phe
1 5

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Val Met Pro Lys Thr Gly Leu Leu Ile Ile
1 5 10

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Val Tyr Pro Lys Thr Gly Leu Leu Ile Phe
1 5 10

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Glu Phe Leu Trp Gly Pro Arg Ala Leu Ile
1 5 10

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<400> 330

Glu Tyr Leu Trp Gly Pro Arg Ala Leu Phe
1 5 10

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Leu Trp Gly Pro Arg Ala Leu Ile
1 5

<210> 332
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<400> 332

Ser Tyr Val Lys Val Leu His His Thr Leu
1 5 10

<210> 333
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<400> 333

Ser Tyr Val Lys Val Leu His His Thr Phe
1 5 10

<210> 334
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<400> 334

Thr Phe Pro Asp Leu Glu Ser Glu Phe
1 5

<210> 335
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<400> 335

Thr Tyr Pro Asp Leu Glu Ser Glu Phe
1 5

<210> 336

<211> 9
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<400> 336

Asn Trp Gln Tyr Phe Phe Pro Val Ile
1 5

<210> 337
<211> 9
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<400> 337

Asn Tyr Gln Tyr Phe Phe Pro Val Phe
1 5

<210> 338
<211> 10
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<400> 338

Asn Tyr Gln Tyr Phe Phe Pro Val Ile Phe
1 5 10

<210> 339
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<400> 339

Gln Tyr Phe Phe Pro Val Ile Phe
1 5

<210> 340
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<400> 340

Ile Phe Ser Lys Ala Ser Ser Ser Leu
1 5

<210> 341
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Ile Tyr Ser Lys Ala Ser Ser Ser Phe
1 5

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<400> 342

Ile Phe Ser Lys Ala Ser Ser Ser Leu Gln Leu
1 5 10

<210> 343
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<400> 343

Leu Tyr Ile Phe Ala Thr Cys Leu Gly Leu
1 5 10

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<400> 344

Leu Tyr Ile Phe Ala Thr Cys Leu Gly Phe
1 5 10

<210> 345
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<400> 345

Ile Met Pro Lys Ala Gly Leu Leu Ile
1 5

<210> 346
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<400> 346

Ile Tyr Pro Lys Ala Gly Leu Leu Phe
1 5

<210> 347
<211> 10

<212> PRT
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<400> 347

Ile	Met	Pro	Lys	Ala	Gly	Leu	Leu	Ile	Ile
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<213> Homo sapiens

<400> 348

Ile	Tyr	Pro	Lys	Ala	Gly	Leu	Leu	Ile	Phe
1				5					10

<210> 349
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<400> 349

Ile	Trp	Glu	Glu	Leu	Ser	Val	Leu	Glu	Val	Phe
1				5						10

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<400> 350

Ser	Tyr	Pro	Pro	Leu	His	Glu	Trp
1				5			

<210> 351
<211> 10
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<213> Homo sapiens

<400> 351

Ser	Tyr	Pro	Pro	Leu	His	Glu	Trp	Val	Leu
1				5					10

<210> 352
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<212> PRT
<213> Homo sapiens

<400> 352

Ser	Tyr	Pro	Pro	Leu	His	Glu	Trp	Val	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10

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<211> 9
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<213> Homo sapiens

<400> 353

Thr Phe Ser Asp Leu Trp Lys Leu Leu
1 5

<210> 354
<211> 9
<212> PRT
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<400> 354

Thr Tyr Ser Asp Leu Trp Lys Leu Phe
1 5

<210> 355
<211> 8
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<400> 355

Thr Tyr Gln Gly Ser Tyr Gly Phe
1 5

<210> 356
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<400> 356

Thr Tyr Gln Gly Ser Tyr Gly Phe Arg Leu
1 5 10

<210> 357
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<400> 357

Thr Tyr Gln Gly Ser Tyr Gly Phe Arg Phe
1 5 10

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<213> Homo sapiens

<400> 358

Ser Tyr Gly Phe Arg Leu Gly Phe
1 5

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<213> Homo sapiens

<400> 359

Ser Tyr Gly Phe Arg Leu Gly Phe Leu
1 5

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<400> 360

Ser Tyr Gly Phe Arg Leu Gly Phe Phe
1 5

<210> 361

<211> 10

<212> PRT

<213> Homo sapiens

<400> 361

Thr Tyr Ser Pro Ala Leu Asn Lys Met Phe
1 5 10

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<400> 362

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<210> 363

<211> 702

<212> PRT

<213> Homo sapiens

<400> 363

Met Glu Ser Pro Ser Ala Pro Pro His Arg Trp Cys Ile Pro Trp Gln
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Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Pro Pro Thr
20 25 30

Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly
35 40 45

Lys Glu Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly
50 55 60

Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile
65 70 75 80

Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser
85 90 95

Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile
100 105 110

Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp
115 120 125

Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr Pro Glu Leu
130 135 140

Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys Pro Val Glu Asp Lys
145 150 155 160

Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Thr Gln Asp Ala Thr Tyr
165 170 175

Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg Leu Gln
180 185 190

Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Phe Asn Val Thr Arg Asn
195 200 205

Asp Thr Ala Ser Tyr Lys Cys Glu Thr Gln Asn Pro Val Ser Ala Arg
210 215 220

Arg Ser Asp Ser Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Ala Pro
225 230 235 240

Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser Gly Glu Asn Leu Asn
245 250 255

Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser Trp Phe
260 265 270

Val Asn Gly Thr Phe Gln Gln Ser Thr Gln Glu Leu Phe Ile Pro Asn
275 280 285

Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys Gln Ala His Asn Ser
290 295 300

Asp Thr Gly Leu Asn Arg Thr Thr Val Thr Thr Ile Thr Val Tyr Ala
305 310 315 320

Glu Pro Pro Lys Pro Phe Ile Thr Ser Asn Asn Ser Asn Pro Val Glu
325 330 335

Asp Glu Asp Ala Val Ala Leu Thr Cys Glu Pro Glu Ile Gln Asn Thr
340 345 350

Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg
355 360 365

Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu Ser Val Thr
370 375 380

Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly Ile Gln Asn Glu Leu Ser
385 390 395 400

Val Asp His Ser Asp Pro Val Ile Leu Asn Val Leu Tyr Gly Pro Asp
405 410 415

Asp Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro Gly Val Asn
420 425 430

Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser
435 440 445

Trp Leu Ile Asp Gly Asn Ile Gln Gln His Thr Gln Glu Leu Phe Ile
450 455 460

Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu Tyr Thr Cys Gln Ala Asn
465 470 475 480

Asn Ser Ala Ser Gly His Ser Arg Thr Thr Val Lys Thr Ile Thr Val
485 490 495

Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys Pro
500 505 510

Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Ala Gln
515 520 525

Asn Thr Thr Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val Ser
530 535 540

Pro Arg Leu Gln Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Phe Asn
545 550 555 560

Val Thr Arg Asn Asp Ala Arg Ala Tyr Val Cys Gly Ile Gln Asn Ser
565 570 575

Val Ser Ala Asn Arg Ser Asp Pro Val Thr Leu Asp Val Leu Tyr Gly
580 585 590

Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp Ser Ser Tyr Leu Ser Gly
595 600 605

Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser Pro Gln
610 615 620

Tyr Ser Trp Arg Ile Asn Gly Ile Pro Gln Gln His Thr Gln Val Leu
625 630 635 640

Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr Tyr Ala Cys Phe
645 650 655

Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser Ile Val Lys Ser Ile
660 665 670

Thr Val Ser Ala Ser Gly Thr Ser Pro Gly Leu Ser Ala Gly Ala Thr
675 680 685

Val Gly Ile Met Ile Gly Val Leu Val Gly Val Ala Leu Ile
690 695 700

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<211> 1255

<212> PRT

<213> Homo sapiens

<400> 364

Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu
1 5 10 15

Pro Pro Gly Ala Ala Ser Thr Gln Val Cys Thr Gly Thr Asp Met Lys
20 25 30

Leu	Arg	Leu	Pro	Ala	Ser	Pro	Glu	Thr	His	Leu	Asp	Met	Leu	Arg	His
		35					40					45			
Leu	Tyr	Gln	Gly	Cys	Gln	Val	Val	Gln	Gly	Asn	Leu	Glu	Leu	Thr	Tyr
	50					55					60				
Leu	Pro	Thr	Asn	Ala	Ser	Leu	Ser	Phe	Leu	Gln	Asp	Ile	Gln	Glu	Val
65					70					75					80
Gln	Gly	Tyr	Val	Leu	Ile	Ala	His	Asn	Gln	Val	Arg	Gln	Val	Pro	Leu
				85					90					95	
Gln	Arg	Leu	Arg	Ile	Val	Arg	Gly	Thr	Gln	Leu	Phe	Glu	Asp	Asn	Tyr
			100					105						110	
Ala	Leu	Ala	Val	Leu	Asp	Asn	Gly	Asp	Pro	Leu	Asn	Asn	Thr	Thr	Pro
		115					120						125		
Val	Thr	Gly	Ala	Ser	Pro	Gly	Gly	Leu	Arg	Glu	Leu	Gln	Leu	Arg	Ser
	130					135						140			
Leu	Thr	Glu	Ile	Leu	Lys	Gly	Gly	Val	Leu	Ile	Gln	Arg	Asn	Pro	Gln
145					150					155					160
Leu	Cys	Tyr	Gln	Asp	Thr	Ile	Leu	Trp	Lys	Asp	Ile	Phe	His	Lys	Asn
				165					170					175	
Asn	Gln	Leu	Ala	Leu	Thr	Leu	Ile	Asp	Thr	Asn	Arg	Ser	Arg	Ala	Cys
			180					185						190	
His	Pro	Cys	Ser	Pro	Met	Cys	Lys	Gly	Ser	Arg	Cys	Trp	Gly	Glu	Ser
		195					200					205			
Ser	Glu	Asp	Cys	Gln	Ser	Leu	Thr	Arg	Thr	Val	Cys	Ala	Gly	Gly	Cys
	210					215					220				
Ala	Arg	Cys	Lys	Gly	Pro	Leu	Pro	Thr	Asp	Cys	Cys	His	Glu	Gln	Cys
225					230					235					240
Ala	Ala	Gly	Cys	Thr	Gly	Pro	Lys	His	Ser	Asp	Cys	Leu	Ala	Cys	Leu
				245					250					255	
His	Phe	Asn	His	Ser	Gly	Ile	Cys	Glu	Leu	His	Cys	Pro	Ala	Leu	Val
			260					265						270	

Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro Glu Gly Arg
275 280 285

Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr Asn Tyr Leu
290 295 300

Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln
305 310 315 320

Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys
325 330 335

Pro Cys Ala Arg Val Cys Tyr Gly Leu Gly Met Glu His Leu Arg Glu
340 345 350

Val Arg Ala Val Thr Ser Ala Asn Ile Gln Glu Phe Ala Gly Cys Lys
355 360 365

Lys Ile Phe Gly Ser Leu Ala Phe Leu Pro Glu Ser Phe Asp Gly Asp
370 375 380

Pro Ala Ser Asn Thr Ala Pro Leu Gln Pro Glu Gln Leu Gln Val Phe
385 390 395 400

Glu Thr Leu Glu Glu Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro
405 410 415

Asp Ser Leu Pro Asp Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg
420 425 430

Gly Arg Ile Leu His Asn Gly Ala Tyr Ser Leu Thr Leu Gln Gly Leu
435 440 445

Gly Ile Ser Trp Leu Gly Leu Arg Ser Leu Arg Glu Leu Gly Ser Gly
450 455 460

Leu Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His Thr Val
465 470 475 480

Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr
485 490 495

Ala Asn Arg Pro Glu Asp Glu Cys Val Gly Glu Gly Leu Ala Cys His
500 505 510

Gln	Leu	Cys	Ala	Arg	Gly	His	Cys	Trp	Gly	Pro	Gly	Pro	Thr	Gln	Cys	
	515						520					525				
Val	Asn	Cys	Ser	Gln	Phe	Leu	Arg	Gly	Gln	Glu	Cys	Val	Glu	Glu	Cys	
	530					535					540					
Arg	Val	Leu	Gln	Gly	Leu	Pro	Arg	Glu	Tyr	Val	Asn	Ala	Arg	His	Cys	
545					550					555					560	
Leu	Pro	Cys	His	Pro	Glu	Cys	Gln	Pro	Gln	Asn	Gly	Ser	Val	Thr	Cys	
				565					570					575		
Phe	Gly	Pro	Glu	Ala	Asp	Gln	Cys	Val	Ala	Cys	Ala	His	Tyr	Lys	Asp	
			580					585						590		
Pro	Pro	Phe	Cys	Val	Ala	Arg	Cys	Pro	Ser	Gly	Val	Lys	Pro	Asp	Leu	
		595					600					605				
Ser	Tyr	Met	Pro	Ile	Trp	Lys	Phe	Pro	Asp	Glu	Glu	Gly	Ala	Cys	Gln	
	610					615					620					
Pro	Cys	Pro	Ile	Asn	Cys	Thr	His	Ser	Cys	Val	Asp	Leu	Asp	Asp	Lys	
625					630					635					640	
Gly	Cys	Pro	Ala	Glu	Gln	Arg	Ala	Ser	Pro	Leu	Thr	Ser	Ile	Ile	Ser	
				645					650					655		
Ala	Val	Val	Gly	Ile	Leu	Leu	Val	Val	Val	Leu	Gly	Val	Val	Phe	Gly	
			660					665					670			
Ile	Leu	Ile	Lys	Arg	Arg	Gln	Gln	Lys	Ile	Arg	Lys	Tyr	Thr	Met	Arg	
	675					680						685				
Arg	Leu	Leu	Gln	Glu	Thr	Glu	Leu	Val	Glu	Pro	Leu	Thr	Pro	Ser	Gly	
	690					695					700					
Ala	Met	Pro	Asn	Gln	Ala	Gln	Met	Arg	Ile	Leu	Lys	Glu	Thr	Glu	Leu	
705					710					715					720	
Arg	Lys	Val	Lys	Val	Leu	Gly	Ser	Gly	Ala	Phe	Gly	Thr	Val	Tyr	Lys	
				725					730					735		
Gly	Ile	Trp	Ile	Pro	Asp	Gly	Glu	Asn	Val	Lys	Ile	Pro	Val	Ala	Ile	
			740					745					750			
Lys	Val	Leu	Arg	Glu	Asn	Thr	Ser	Pro	Lys	Ala	Asn	Lys	Glu	Ile	Leu	

755	760	765
Asp Glu Ala Tyr Val Met Ala Gly Val Gly Ser Pro Tyr Val Ser Arg 770 775 780		
Leu Leu Gly Ile Cys Leu Thr Ser Thr Val Gln Leu Val Thr Gln Leu 785 790 795 800		
Met Pro Tyr Gly Cys Leu Leu Asp His Val Arg Glu Asn Arg Gly Arg 805 810 815		
Leu Gly Ser Gln Asp Leu Leu Asn Trp Cys Met Gln Ile Ala Lys Gly 820 825 830		
Met Ser Tyr Leu Glu Asp Val Arg Leu Val His Arg Asp Leu Ala Ala 835 840 845		
Arg Asn Val Leu Val Lys Ser Pro Asn His Val Lys Ile Thr Asp Phe 850 855 860		
Gly Leu Ala Arg Leu Leu Asp Ile Asp Glu Thr Glu Tyr His Ala Asp 865 870 875 880		
Gly Gly Lys Val Pro Ile Lys Trp Met Ala Leu Glu Ser Ile Leu Arg 885 890 895		
Arg Arg Phe Thr His Gln Ser Asp Val Trp Ser Tyr Gly Val Thr Val 900 905 910		
Trp Glu Leu Met Thr Phe Gly Ala Lys Pro Tyr Asp Gly Ile Pro Ala 915 920 925		
Arg Glu Ile Pro Asp Leu Leu Glu Lys Gly Glu Arg Leu Pro Gln Pro 930 935 940		
Pro Ile Cys Thr Ile Asp Val Tyr Met Ile Met Val Lys Cys Trp Met 945 950 955 960		
Ile Asp Ser Glu Cys Arg Pro Arg Phe Arg Glu Leu Val Ser Glu Phe 965 970 975		
Ser Arg Met Ala Arg Asp Pro Gln Arg Phe Val Val Ile Gln Asn Glu 980 985 990		
Asp Leu Gly Pro Ala Ser Pro Leu Asp Ser Thr Phe Tyr Arg Ser Leu 995 1000 1005		

Leu	Glu	Asp	Asp	Asp	Met	Gly	Asp	Leu	Val	Asp	Ala	Glu	Glu	Tyr
1010						1015					1020			
Leu	Val	Pro	Gln	Gln	Gly	Phe	Phe	Cys	Pro	Asp	Pro	Ala	Pro	Gly
1025						1030					1035			
Ala	Gly	Gly	Met	Val	His	His	Arg	His	Arg	Ser	Ser	Ser	Thr	Arg
1040						1045					1050			
Ser	Gly	Gly	Gly	Asp	Leu	Thr	Leu	Gly	Leu	Glu	Pro	Ser	Glu	Glu
1055						1060					1065			
Glu	Ala	Pro	Arg	Ser	Pro	Leu	Ala	Pro	Ser	Glu	Gly	Ala	Gly	Ser
1070						1075					1080			
Asp	Val	Phe	Asp	Gly	Asp	Leu	Gly	Met	Gly	Ala	Ala	Lys	Gly	Leu
1085						1090					1095			
Gln	Ser	Leu	Pro	Thr	His	Asp	Pro	Ser	Pro	Leu	Gln	Arg	Tyr	Ser
1100						1105					1110			
Glu	Asp	Pro	Thr	Val	Pro	Leu	Pro	Ser	Glu	Thr	Asp	Gly	Tyr	Val
1115						1120					1125			
Ala	Pro	Leu	Thr	Cys	Ser	Pro	Gln	Pro	Glu	Tyr	Val	Asn	Gln	Pro
1130						1135					1140			
Asp	Val	Arg	Pro	Gln	Pro	Pro	Ser	Pro	Arg	Glu	Gly	Pro	Leu	Pro
1145						1150					1155			
Ala	Ala	Arg	Pro	Ala	Gly	Ala	Thr	Leu	Glu	Arg	Pro	Lys	Thr	Leu
1160						1165					1170			
Ser	Pro	Gly	Lys	Asn	Gly	Val	Val	Lys	Asp	Val	Phe	Ala	Phe	Gly
1175						1180					1185			
Gly	Ala	Val	Glu	Asn	Pro	Glu	Tyr	Leu	Thr	Pro	Gln	Gly	Gly	Ala
1190						1195					1200			
Ala	Pro	Gln	Pro	His	Pro	Pro	Pro	Ala	Phe	Ser	Pro	Ala	Phe	Asp
1205						1210					1215			
Asn	Leu	Tyr	Tyr	Trp	Asp	Gln	Asp	Pro	Pro	Glu	Arg	Gly	Ala	Pro
1220						1225					1230			

Pro Ser Thr Phe Lys Gly Thr Pro Thr Ala Glu Asn Pro Glu Tyr
1235 1240 1245

Leu Gly Leu Asp Val Pro Val
1250 1255

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<400> 365

Met Pro Leu Glu Gln Arg Ser Gln His Cys Lys Pro Glu Glu Gly Leu
1 5 10 15

Glu Ala Arg Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala
20 25 30

Thr Glu Glu Gln Gln Thr Ala Ser Ser Ser Ser Thr Leu Val Glu Val
35 40 45

Thr Leu Gly Glu Val Pro Ala Ala Asp Ser Pro Ser Pro Pro His Ser
50 55 60

Pro Gln Gly Ala Ser Ser Phe Ser Thr Thr Ile Asn Tyr Thr Leu Trp
65 70 75 80

Arg Gln Ser Asp Glu Gly Ser Ser Asn Gln Glu Glu Glu Gly Pro Arg
85 90 95

Met Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Ile Ser Arg Lys
100 105 110

Met Val Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg Glu
115 120 125

Pro Val Thr Lys Ala Glu Met Leu Glu Ser Val Leu Arg Asn Cys Gln
130 135 140

Asp Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Glu Tyr Leu Gln Leu
145 150 155 160

Val Phe Gly Ile Glu Val Val Glu Val Val Pro Ile Ser His Leu Tyr
165 170 175

Ile Leu Val Thr Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp

180	185	190
Asn Gln Val Met Pro Lys Thr Gly Leu Leu Ile Ile Val Leu Ala Ile		
195	200	205
Ile Ala Ile Glu Gly Asp Cys Ala Pro Glu Glu Lys Ile Trp Glu Glu		
210	215	220
Leu Ser Met Leu Glu Val Phe Glu Gly Arg Glu Asp Ser Val Phe Ala		
225	230	235
His Pro Arg Lys Leu Leu Met Gln Asp Leu Val Gln Glu Asn Tyr Leu		
245	250	255
Glu Tyr Arg Gln Val Pro Gly Ser Asp Pro Ala Cys Tyr Glu Phe Leu		
260	265	270
Trp Gly Pro Arg Ala Leu Ile Glu Thr Ser Tyr Val Lys Val Leu His		
275	280	285
His Thr Leu Lys Ile Gly Gly Glu Pro His Ile Ser Tyr Pro Pro Leu		
290	295	300
His Glu Arg Ala Leu Arg Glu Gly Glu Glu		
305	310	
<210> 366		
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<400> 366		
Met Pro Leu Glu Gln Arg Ser Gln His Cys Lys Pro Glu Glu Gly Leu		
1	5	10
Glu Ala Arg Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala		
20	25	30
Thr Glu Glu Gln Glu Ala Ala Ser Ser Ser Ser Thr Leu Val Glu Val		
35	40	45
Thr Leu Gly Glu Val Pro Ala Ala Glu Ser Pro Asp Pro Pro Gln Ser		
50	55	60
Pro Gln Gly Ala Ser Ser Leu Pro Thr Thr Met Asn Tyr Pro Leu Trp		
65	70	75
		80

Ser Gln Ser Tyr Glu Asp Ser Ser Asn Gln Glu Glu Glu Gly Pro Ser
85 90 95

Thr Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys
100 105 110

Val Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg Glu
115 120 125

Pro Val Thr Lys Ala Glu Met Leu Gly Ser Val Val Gly Asn Trp Gln
130 135 140

Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Ser Ser Leu Gln Leu
145 150 155 160

Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr
165 170 175

Ile Phe Ala Thr Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp
180 185 190

Asn Gln Ile Met Pro Lys Ala Gly Leu Leu Ile Ile Val Leu Ala Ile
195 200 205

Ile Ala Arg Glu Gly Asp Cys Ala Pro Glu Glu Lys Ile Trp Glu Glu
210 215 220

Leu Ser Val Leu Glu Val Phe Glu Gly Arg Glu Asp Ser Ile Leu Gly
225 230 235 240

Asp Pro Lys Lys Leu Leu Thr Gln His Phe Val Gln Glu Asn Tyr Leu
245 250 255

Glu Tyr Arg Gln Val Pro Gly Ser Asp Pro Ala Cys Tyr Glu Phe Leu
260 265 270

Trp Gly Pro Arg Ala Leu Val Glu Thr Ser Tyr Val Lys Val Leu His
275 280 285

His Met Val Lys Ile Ser Gly Gly Pro His Ile Ser Tyr Pro Pro Leu
290 295 300

His Glu Trp Val Leu Arg Glu Gly Glu Glu
305 310

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<211> 393
<212> PRT
<213> Homo sapiens

<400> 367

Met Glu Glu Pro Gln Ser Asp Pro Ser Val Glu Pro Pro Leu Ser Gln
1 5 10 15

Glu Thr Phe Ser Asp Leu Trp Lys Leu Leu Pro Glu Asn Asn Val Leu
20 25 30

Ser Pro Leu Pro Ser Gln Ala Met Asp Asp Leu Met Leu Ser Pro Asp
35 40 45

Asp Ile Glu Gln Trp Phe Thr Glu Asp Pro Gly Pro Asp Glu Ala Pro
50 55 60

Arg Met Pro Glu Ala Ala Pro Pro Val Ala Pro Ala Pro Ala Ala Pro
65 70 75 80

Thr Pro Ala Ala Pro Ala Pro Ala Pro Ser Trp Pro Leu Ser Ser Ser
85 90 95

Val Pro Ser Gln Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Arg Leu Gly
100 105 110

Phe Leu His Ser Gly Thr Ala Lys Ser Val Thr Cys Thr Tyr Ser Pro
115 120 125

Ala Leu Asn Lys Met Phe Cys Gln Leu Ala Lys Thr Cys Pro Val Gln
130 135 140

Leu Trp Val Asp Ser Thr Pro Pro Pro Gly Thr Arg Val Arg Ala Met
145 150 155 160

Ala Ile Tyr Lys Gln Ser Gln His Met Thr Glu Val Val Arg Arg Cys
165 170 175

Pro His His Glu Arg Cys Ser Asp Ser Asp Gly Leu Ala Pro Pro Gln
180 185 190

His Leu Ile Arg Val Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp
195 200 205

Arg Asn Thr Phe Arg His Ser Val Val Val Pro Tyr Glu Pro Pro Glu
210 215 220

Val Gly Ser Asp Cys Thr Thr Ile His Tyr Asn Tyr Met Cys Asn Ser
225 230 235 240

Ser Cys Met Gly Gly Met Asn Arg Arg Pro Ile Leu Thr Ile Ile Thr
245 250 255

Leu Glu Asp Ser Ser Gly Asn Leu Leu Gly Arg Asn Ser Phe Glu Val
260 265 270

Arg Val Cys Ala Cys Pro Gly Arg Asp Arg Arg Thr Glu Glu Glu Asn
275 280 285

Leu Arg Lys Lys Gly Glu Pro His His Glu Leu Pro Pro Gly Ser Thr
290 295 300

Lys Arg Ala Leu Pro Asn Asn Thr Ser Ser Ser Pro Gln Pro Lys Lys
305 310 315 320

Lys Pro Leu Asp Gly Glu Tyr Phe Thr Leu Gln Ile Arg Gly Arg Glu
325 330 335

Arg Phe Glu Met Phe Arg Glu Leu Asn Glu Ala Leu Glu Leu Lys Asp
340 345 350

Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His
355 360 365

Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
370 375 380

Phe Lys Thr Glu Gly Pro Asp Ser Asp
385 390

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<213> Homo sapiens

<400> 368

Ala Glu Gly Lys Glu Val Leu Leu Leu
1 5

<210> 369
<211> 10
<212> PRT
<213> Homo sapiens

<400> 369

Gln Glu Leu Phe Ile Pro Asn Ile Thr Val
1 5 10

<210> 370

<211> 11

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<213> Homo sapiens

<400> 370

Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly
1 5 10

<210> 371

<211> 9

<212> PRT

<213> Homo sapiens

<400> 371

Tyr Glu Cys Gly Ile Gln Asn Glu Leu
1 5

<210> 372

<211> 11

<212> PRT

<213> Homo sapiens

<400> 372

Tyr Glu Cys Gly Ile Gln Asn Glu Leu Ser Val
1 5 10

<210> 373

<211> 11

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<213> Homo sapiens

<400> 373

Met Glu Ser Pro Ser Ala Pro Pro His Arg Trp
1 5 10

<210> 374

<211> 9

<212> PRT

<213> Homo sapiens

<400> 374

Ile Glu Ser Thr Pro Phe Asn Val Ala
1 5

<210> 375
<211> 10
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<213> Homo sapiens

<400> 375

Ala Glu Gly Lys Glu Val Leu Leu Leu Val
1 5 10

<210> 376
<211> 10
<212> PRT
<213> Homo sapiens

<400> 376

Lys Glu Val Leu Leu Leu Val His Asn Leu
1 5 10

<210> 377
<211> 10
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<400> 377

Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu
1 5 10

<210> 378
<211> 11
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<400> 378

Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu
1 5 10

<210> 379
<211> 9
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<400> 379

Cys Glu Thr Gln Asn Pro Val Ser Ala
1 5

<210> 380
<211> 9
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<213> Homo sapiens

<400> 380

Gln Glu Leu Phe Ile Pro Asn Ile Thr
1 5

<210> 381

<211> 12

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<213> Homo sapiens

<400> 381

Pro Glu Ala Gln Asn Thr Thr Tyr Leu Trp Trp Val
1 5 10

<210> 382

<211> 11

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<213> Homo sapiens

<400> 382

Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile
1 5 10

<210> 383

<211> 11

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<213> Homo sapiens

<400> 383

Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
1 5 10

<210> 384

<211> 9

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<213> Homo sapiens

<400> 384

Cys Glu Pro Glu Thr Gln Asp Ala Thr
1 5

<210> 385

<211> 10

<212> PRT

<213> Homo sapiens

<400> 385

Gly Glu Asn Leu Asn Leu Ser Cys His Ala
1 5 10

<210> 386
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<400> 386

Gly Glu Asn Leu Asn Leu Ser Cys His Ala Ala
1 5 10

<210> 387
<211> 8
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<400> 387

Gln Glu Leu Phe Ile Pro Asn Ile
1 5

<210> 388
<211> 11
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<400> 388

Cys Glu Pro Glu Ile Gln Asn Thr Thr Tyr Leu
1 5 10

<210> 389
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<400> 389

Pro Glu Ile Gln Asn Thr Thr Tyr Leu Trp Trp
1 5 10

<210> 390
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<400> 390

Pro Glu Ile Gln Asn Thr Thr Tyr Leu Trp Trp Val
1 5 10

<210> 391
<211> 11
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<400> 391

Asn Glu Leu Ser Val Asp His Ser Asp Pro Val
1 5 10

<210> 392
<211> 9
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<400> 392

Gln Glu Leu Phe Ile Ser Asn Ile Thr
1 5

<210> 393
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<400> 393

Pro Glu Ala Gln Asn Thr Thr Tyr Leu Trp Trp
1 5 10

<210> 394
<211> 10
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<400> 394

Gly Glu Arg Val Asp Gly Asn Arg Gln Ile
1 5 10

<210> 395
<211> 10
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<400> 395

Asn Glu Glu Ala Thr Gly Gln Phe Arg Val
1 5 10

<210> 396
<211> 9
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<400> 396

Glu Glu Ala Thr Gly Gln Phe Arg Val
1 5

<210> 397

<211> 10
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<400> 397

Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
1 5 10

<210> 398
<211> 9
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<400> 398

Val Glu Asp Lys Asp Ala Val Ala Phe
1 5

<210> 399
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<400> 399

Cys Glu Pro Glu Thr Gln Asp Ala Thr Tyr Leu
1 5 10

<210> 400
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<400> 400

Val Glu Asp Glu Asp Ala Val Ala Leu
1 5

<210> 401
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<400> 401

Cys Glu Pro Glu Ile Gln Asn Thr Thr Tyr Leu Trp Trp
1 5 10

<210> 402
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<400> 402

Pro Glu Ile Gln Asn Thr Thr Tyr Leu
1 5

<210> 403
<211> 8
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<400> 403

Ala Glu Leu Pro Lys Pro Ser Ile
1 5

<210> 404
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<400> 404

Pro Glu Ala Gln Asn Thr Thr Tyr
1 5

<210> 405
<211> 8
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<400> 405

Ala Glu Gly Lys Glu Val Leu Leu
1 5

<210> 406
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<400> 406

Ala Glu Pro Pro Lys Pro Phe Ile Thr
1 5

<210> 407
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<400> 407

Cys Glu Pro Glu Ile Gln Asn Thr Thr
1 5

<210> 408
<211> 10

<212> PRT
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<400> 408

Cys Glu Pro Glu Ile Gln Asn Thr Thr Tyr
1 5 10

<210> 409
<211> 10
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<400> 409

Pro Glu Ile Gln Asn Thr Thr Tyr Leu Trp
1 5 10

<210> 410
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<400> 410

Gln Glu Leu Phe Ile Ser Asn Ile
1 5

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Thr Glu Lys Asn Ser Gly Leu Tyr
1 5

<210> 412
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<400> 412

Thr Glu Lys Asn Ser Gly Leu Tyr Thr
1 5

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Cys Glu Pro Glu Ala Gln Asn Thr Thr Tyr

1 5 10

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<400> 414

Cys Glu Pro Glu Ala Gln Asn Thr Thr Tyr Leu
1 5 10

<210> 415
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<400> 415

Pro Glu Ala Gln Asn Thr Thr Tyr Leu Trp
1 5 10

<210> 416
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<400> 416

Asn Glu Glu Ala Thr Gly Gln Phe
1 5

<210> 417
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<400> 417

Pro Glu Leu Pro Lys Pro Ser Ile
1 5

<210> 418
<211> 10
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<400> 418

Val Glu Asp Lys Asp Ala Val Ala Phe Thr
1 5 10

<210> 419
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<213> Homo sapiens

<400> 419

Cys Glu Pro Glu Thr Gln Asp Ala Thr Tyr
1 5 10

<210> 420

<211> 8

<212> PRT

<213> Homo sapiens

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Pro Glu Thr Gln Asp Ala Thr Tyr
1 5

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<211> 9

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<213> Homo sapiens

<400> 421

Pro Glu Thr Gln Asp Ala Thr Tyr Leu
1 5

<210> 422

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<213> Homo sapiens

<400> 422

Pro Glu Thr Gln Asp Ala Thr Tyr Leu Trp
1 5 10

<210> 423

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<213> Homo sapiens

<400> 423

Pro Glu Thr Gln Asp Ala Thr Tyr Leu Trp Trp
1 5 10

<210> 424

<211> 7

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<213> Homo sapiens

<400> 424

Cys Glu Thr Gln Asn Pro Val
1 5

<210> 425
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Ala Glu Pro Pro Lys Pro Phe Ile
1 5

<210> 426
<211> 10
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<400> 426

Val Glu Asp Glu Asp Ala Val Ala Leu Thr
1 5 10

<210> 427
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<400> 427

Pro Glu Ile Gln Asn Thr Thr Tyr
1 5

<210> 428
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<400> 428

Cys Glu Pro Glu Ala Gln Asn Thr Thr
1 5

<210> 429
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<400> 429

Pro Glu Ala Gln Asn Thr Thr Tyr Leu
1 5

<210> 430
<211> 11
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<400> 430

Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu
1 5 10

<210> 431

<211> 12

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<213> Homo sapiens

<400> 431

Leu Glu Leu Thr Tyr Leu Pro Thr Asn Ala Ser Leu
1 5 10

<210> 432

<211> 9

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<400> 432

Gln Glu Val Gln Gly Tyr Val Leu Ile
1 5

<210> 433

<211> 11

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<400> 433

Gly Glu Gly Leu Ala Cys His Gln Leu Cys Ala
1 5 10

<210> 434

<211> 8

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<213> Homo sapiens

<400> 434

Ala Glu Gln Arg Ala Ser Pro Leu
1 5

<210> 435

<211> 11

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<213> Homo sapiens

<400> 435

Ala Glu Gln Arg Ala Ser Pro Leu Thr Ser Ile
1 5 10

<210> 436
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<400> 436

Lys Glu Ile Leu Asp Glu Ala Tyr Val Met
1 5 10

<210> 437
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<400> 437

Gly Glu Arg Leu Pro Gln Pro Pro Ile
1 5

<210> 438
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<400> 438

Ser Glu Cys Arg Pro Arg Phe Arg Glu Leu
1 5 10

<210> 439
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<400> 439

Ala Glu Asn Pro Glu Tyr Leu Gly Leu
1 5

<210> 440
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<400> 440

Arg Glu Leu Gln Leu Arg Ser Leu Thr Glu Ile
1 5 10

<210> 441
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<400> 441

Gln Glu Phe Ala Gly Cys Lys Lys Ile Phe Gly
1 5 10

<210> 442

<211> 12

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<400> 442

Leu Glu Glu Ile Thr Gly Tyr Leu Tyr Ile Ser Ala
1 5 10

<210> 443

<211> 13

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<400> 443

Ser Glu Phe Ser Arg Met Ala Arg Asp Pro Gln Arg Phe
1 5 10

<210> 444

<211> 10

<212> PRT

<213> Homo sapiens

<400> 444

Asn Glu Asp Leu Gly Pro Ala Ser Pro Leu
1 5 10

<210> 445

<211> 10

<212> PRT

<213> Homo sapiens

<400> 445

Ser Glu Glu Glu Ala Pro Arg Ser Pro Leu
1 5 10

<210> 446

<211> 10

<212> PRT

<213> Homo sapiens

<400> 446

Ser Glu Thr Asp Gly Tyr Val Ala Pro Leu
1 5 10

<210> 447
<211> 10
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<400> 447

Leu Glu Leu Thr Tyr Leu Pro Thr Asn Ala
1 5 10

<210> 448
<211> 8
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<400> 448

Gln Glu Val Gln Gly Tyr Val Leu
1 5

<210> 449
<211> 9
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<400> 449

Phe Glu Asp Asn Tyr Ala Leu Ala Val
1 5

<210> 450
<211> 9
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<400> 450

Arg Glu Leu Gln Leu Arg Ser Leu Thr
1 5

<210> 451
<211> 9
<212> PRT
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<400> 451

Met Glu His Leu Arg Glu Val Arg Ala
1 5

<210> 452
<211> 10
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<400> 452

Met Glu His Leu Arg Glu Val Arg Ala Val
1 5 10

<210> 453
<211> 13
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<400> 453

Met Glu His Leu Arg Glu Val Arg Ala Val Thr Ser Ala
1 5 10

<210> 454
<211> 10
<212> PRT
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<400> 454

Gln Glu Phe Ala Gly Cys Lys Lys Ile Phe
1 5 10

<210> 455
<211> 11
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<400> 455

Glu Glu Ile Thr Gly Tyr Leu Tyr Ile Ser Ala
1 5 10

<210> 456
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<400> 456

Arg Glu Leu Gly Ser Gly Leu Ala Leu
1 5

<210> 457
<211> 10
<212> PRT
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<400> 457

Arg Glu Leu Gly Ser Gly Leu Ala Leu Ile
1 5 10

<210> 458

<211> 9
<212> PRT
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<400> 458

Gly Glu Gly Leu Ala Cys His Gln Leu
1 5

<210> 459
<211> 10
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<400> 459

Arg Glu Tyr Val Asn Ala Arg His Cys Leu
1 5 10

<210> 460
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<212> PRT
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<400> 460

Glu Glu Gly Ala Cys Gln Pro Cys Pro Ile
1 5 10

<210> 461
<211> 9
<212> PRT
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<400> 461

Ala Glu Gln Arg Ala Ser Pro Leu Thr
1 5

<210> 462
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<400> 462

Gln Glu Thr Glu Leu Val Glu Pro Leu
1 5

<210> 463
<211> 10
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<400> 463

Gln Glu Thr Glu Leu Val Glu Pro Leu Thr
1 5 10

<210> 464
<211> 10
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Gly Glu Asn Val Lys Ile Pro Val Ala Ile
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Arg Glu Leu Val Ser Glu Phe Ser Arg Met
1 5 10

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Arg Glu Leu Val Ser Glu Phe Ser Arg Met Ala
1 5 10

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Ala Glu Glu Tyr Leu Val Pro Gln Gln Gly Phe Phe
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Ser Glu Asp Pro Thr Val Pro Leu
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Ser Glu Thr Asp Gly Tyr Val Ala Pro Leu Thr
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Ala Glu Asn Pro Glu Tyr Leu Gly Leu Asp Val
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Met Glu Leu Ala Ala Leu Cys Arg Trp
1 5

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Met Glu Leu Ala Ala Leu Cys Arg Trp Gly
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Gln Glu Val Gln Gly Tyr Val Leu Ile Ala
1 5 10

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Phe Glu Asp Asn Tyr Ala Leu Ala Val Leu

1 5 10

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Arg Glu Leu Gln Leu Arg Ser Leu
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Thr Glu Ile Leu Lys Gly Gly Val Leu
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Thr Glu Ile Leu Lys Gly Gly Val Leu Ile
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Gly Glu Ser Ser Glu Asp Cys Gln Ser Leu
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Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val
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Pro Glu Gly Arg Tyr Thr Phe Gly Ala Ser Cys Val
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Arg Glu Val Arg Ala Val Thr Ser Ala
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Arg Glu Val Arg Ala Val Thr Ser Ala Asn Ile
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Glu Glu Ile Thr Gly Tyr Leu Tyr
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Glu Glu Ile Thr Gly Tyr Leu Tyr Ile
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Glu Glu Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp
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Val	Glu	Glu	Cys	Arg	Val	Leu	Gln	Gly	Leu
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Gly	Glu	Asn	Val	Lys	Ile	Pro	Val	Ala
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<400> 489

Lys	Glu	Ile	Leu	Asp	Glu	Ala	Tyr	Val
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Lys	Glu	Ile	Leu	Asp	Glu	Ala	Tyr	Val	Met	Ala
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Asp Glu Ala Tyr Val Met Ala Gly Val Gly
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<400> 492

Thr Glu Tyr His Ala Asp Gly Gly Lys Val Pro Ile
1 5 10

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<213> Homo sapiens

<400> 493

Gly Glu Arg Leu Pro Gln Pro Pro Ile Cys Thr Ile
1 5 10

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<400> 494

Ala Glu Glu Tyr Leu Val Pro Gln Gln Gly Phe
1 5 10

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<400> 495

Glu Glu Tyr Leu Val Pro Gln Gln Gly
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<400> 496

Glu Glu Tyr Leu Val Pro Gln Gln Gly Phe
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Glu Glu Tyr Leu Val Pro Gln Gln Gly Phe Phe
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Glu Glu Glu Ala Pro Arg Ser Pro Leu
1 5

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Glu Glu Ala Pro Arg Ser Pro Leu Ala
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Arg Glu Gly Pro Leu Pro Ala Ala Arg Pro Ala
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Gly Glu Ser Ser Glu Asp Cys Gln Ser Leu Thr
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Cys Glu Leu His Cys Pro Ala Leu
1 5

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Cys Glu Leu His Cys Pro Ala Leu Val
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Cys Glu Leu His Cys Pro Ala Leu Val Thr
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Cys Glu Leu His Cys Pro Ala Leu Val Thr Tyr
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<400> 507

Phe Glu Ser Met Pro Asn Pro Glu Gly
1 5

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Phe	Glu	Ser	Met	Pro	Asn	Pro	Glu	Gly	Arg	Tyr
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Gln	Glu	Phe	Ala	Gly	Cys	Lys	Lys	Ile
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Phe	Glu	Thr	Leu	Glu	Glu	Ile	Thr	Gly	Tyr	Leu
1				5					10	

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Leu	Glu	Glu	Ile	Thr	Gly	Tyr	Leu	Tyr	Ile
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Pro	Glu	Asp	Glu	Cys	Val	Gly	Glu	Gly	Leu
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Asp Glu Cys Val Gly Glu Gly Leu
1 5

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Thr Glu Leu Val Glu Pro Leu Thr Pro Ser Gly Ala
1 5 10

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Arg Glu Asn Thr Ser Pro Lys Ala Asn Lys Glu Ile Leu
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Lys Glu Ile Leu Asp Glu Ala Tyr
1 5

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Asp Glu Ala Tyr Val Met Ala Gly Val
1 5

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Leu Glu Ser Ile Leu Arg Arg Arg Phe
1 5

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Trp Glu Leu Met Thr Phe Gly Ala Lys Pro Tyr
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Arg Glu Ile Pro Asp Leu Leu Glu Lys Gly Glu Arg Leu
1 5 10

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Gly Glu Arg Leu Pro Gln Pro Pro Ile Cys Thr
1 5 10

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Ser Glu Cys Arg Pro Arg Phe Arg Glu Leu Val
1 5 10

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Ser Glu Gly Ala Gly Ser Asp Val Phe
1 5

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Pro Glu Tyr Leu Gly Leu Asp Val Pro Val
1 5 10

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Cys Glu Lys Cys Ser Lys Pro Cys Ala Arg Val Cys Tyr
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Met Glu His Leu Arg Glu Val Arg Ala Val Thr
1 5 10

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Leu Glu Glu Ile Thr Gly Tyr Leu
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Asp Glu Glu Gly Ala Cys Gln Pro Cys Pro Ile
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Thr Glu Leu Val Glu Pro Leu
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Val Glu Pro Leu Thr Pro Ser Gly Ala
1 5

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Lys Glu Thr Glu Leu Arg Lys Val Lys Val
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Thr Glu Leu Arg Lys Val Lys Val Leu
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Leu Glu Asp Val Arg Leu Val His Arg Asp Leu
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Thr Glu Tyr His Ala Asp Gly Gly Lys Val
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Leu Glu Ser Ile Leu Arg Arg Arg Phe Thr

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1 5

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Ala Glu Glu Tyr Leu Val Pro Gln Gln Gly
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Ser Glu Glu Glu Ala Pro Arg Ser Pro Leu Ala
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Ser Glu Gly Ala Gly Ser Asp Val Phe Asp Gly
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Pro Glu Arg Gly Ala Pro Pro Ser Thr
1 5

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Pro Glu Thr His Leu Asp Met Leu
1 5

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Pro Glu Thr His Leu Asp Met Leu Arg His Leu
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Ser Glu Asp Cys Gln Ser Leu
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His Glu Gln Cys Ala Ala Gly Cys Thr
1 5

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Pro Glu Gly Arg Tyr Thr Phe Gly Ala Ser Cys Val Thr
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Gln Glu Val Thr Ala Glu Asp Gly Thr
1 5

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Cys Glu Lys Cys Ser Lys Pro Cys Ala
1 5

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Cys Glu Lys Cys Ser Lys Pro Cys Ala Arg Val
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Arg Glu Val Arg Ala Val Thr
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Phe Glu Thr Leu Glu Glu Ile
1 5

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Phe Glu Thr Leu Glu Glu Ile Thr Gly Tyr
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Asp Glu Cys Val Gly Glu Gly Leu Ala Cys His Gln Leu
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Gln Glu Cys Val Glu Glu Cys Arg Val
1 5

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Val Glu Glu Cys Arg Val Leu Gln Gly
1 5

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Glu Glu Cys Arg Val Leu Gln Gly Leu
1 5

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Pro Glu Cys Gln Pro Gln Asn Gly Ser Val
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Thr Glu Leu Val Glu Pro Leu Thr Pro Ser Gly
1 5 10

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Val Glu Pro Leu Thr Pro Ser Gly Ala Met
1 5 10

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<400> 560

Lys Glu Thr Glu Leu Arg Lys Val Lys Val Leu
1 5 10

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<400> 561

Thr Glu Leu Arg Lys Val Lys Val Leu Gly
1 5 10

<210> 562
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Asp Glu Thr Glu Tyr His Ala Asp Gly
1 5

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Asp Glu Thr Glu Tyr His Ala Asp Gly Gly
1 5 10

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Arg Glu Ile Pro Asp Leu Leu Glu Lys Gly
1 5 10

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Ser Glu Cys Arg Pro Arg Phe
1 5

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Glu Glu Glu Ala Pro Arg Ser Pro Leu Ala
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Glu Glu Ala Pro Arg Ser Pro Leu
1 5

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Ser Glu Gly Ala Gly Ser Asp Val Phe Asp Gly Asp Leu
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Pro Glu Tyr Val Asn Gln Pro Asp Val
1 5

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Val Glu Asn Pro Glu Tyr Leu Thr Pro Gln Gly
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Pro Glu Tyr Leu Thr Pro Gln Gly Gly
1 5

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Pro Glu Arg Gly Ala Pro Pro Ser Thr Phe
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Pro Glu Thr His Leu Asp Met
1 5

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Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr
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His Glu Gln Cys Ala Ala Gly Cys Thr Gly
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Pro Glu Gly Arg Tyr Thr Phe Gly Ala
1 5

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1 5

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Pro Glu Gln Leu Gln Val Phe Glu Thr
1 5

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Pro Glu Gln Leu Gln Val Phe Glu Thr Leu
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Pro Glu Gln Leu Gln Val Phe Glu Thr Leu Glu Glu Ile
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Phe Glu Thr Leu Glu Glu Ile Thr Gly
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Leu Glu Glu Ile Thr Gly Tyr
1 5

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Leu Glu Glu Ile Thr Gly Tyr Leu Tyr
1 5

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Arg Ile Leu His Asn Gly Ala Tyr Ser Leu
1 5 10

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Pro Glu Asp Glu Cys Val Gly Glu Gly
1 5

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Pro Glu Asp Glu Cys Val Gly Glu Gly Leu Ala
1 5 10

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Asp Glu Cys Val Gly Glu Gly Leu Ala
1 5

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Pro Glu Cys Gln Pro Gln Asn Gly Ser Val Thr
1 5 10

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Pro Glu Cys Gln Pro Gln Asn Gly Ser Val Thr Cys Phe
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Pro Glu Ala Asp Gln Cys Val Ala Cys Ala
1 5 10

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Pro Glu Ala Asp Gln Cys Val Ala Cys Ala His Tyr
1 5 10

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Leu Glu Asp Val Arg Leu Val
1 5

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Asp Glu Thr Glu Tyr His Ala
1 5

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Leu Glu Asp Asp Asp Met Gly Asp Leu Val
1 5 10

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Leu Glu Arg Pro Lys Thr Leu Ser Pro Gly
1 5 10

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Val Glu Asn Pro Glu Tyr Leu

1 5

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Pro Glu Tyr Leu Thr Pro Gln Gly Gly Ala
1 5 10

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Arg Glu Arg Phe Glu Met Phe Arg Glu Leu
1 5 10

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Gly Glu Tyr Phe Thr Leu Gln Ile Arg Gly
1 5 10

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Gln Glu Thr Phe Ser Asp Leu Trp Lys Leu
1 5 10

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Asp Glu Ala Pro Arg Met Pro Glu Ala
1 5

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His	Glu	Arg	Cys	Ser	Asp	Ser	Asp	Gly	Leu
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Val	Glu	Tyr	Leu	Asp	Asp	Arg	Asn	Thr	Phe
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<400> 604

Phe	Glu	Val	Arg	Val	Cys	Ala	Cys	Pro	Gly
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<213> Homo sapiens

<400> 605

Gly	Glu	Tyr	Phe	Thr	Leu	Gln	Ile
1			5				

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<400> 606

Phe	Glu	Met	Phe	Arg	Glu	Leu	Asn	Glu	Ala
1			5						10

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Phe	Glu	Met	Phe	Arg	Glu	Leu	Asn	Glu	Ala	Leu
1			5						10	

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Arg Glu Leu Asn Glu Ala Leu Glu Leu
1 5

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<400> 609

Ile Glu Gln Trp Phe Thr Glu Asp Pro Gly
1 5 10

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Val Glu Gly Asn Leu Arg Val Glu Tyr Leu
1 5 10

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Asp Glu Ala Pro Arg Met Pro Glu Ala Ala
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His Glu Arg Cys Ser Asp Ser Asp Gly Leu Ala
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Leu Glu Asp Ser Ser Gly Asn Leu Leu
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Gly Glu Pro His His Glu Leu Pro Pro Gly Ser Thr
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Arg Glu Arg Phe Glu Met Phe
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Leu Glu Leu Lys Asp Ala Gln Ala Gly
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Met Glu Glu Pro Gln Ser Asp Pro Ser Val
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Val Glu Pro Pro Leu Ser Gln Glu Thr
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Asp Glu Ala Pro Arg Met Pro Glu Ala Ala Pro Pro Val
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Pro Glu Val Gly Ser Asp Cys Thr Thr Ile
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Leu Glu Asp Ser Ser Gly Asn Leu Leu Gly
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Thr Glu Glu Glu Asn Leu Arg Lys Lys Gly
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His Glu Leu Pro Pro Gly Ser Thr Lys Arg Ala
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Asn Glu Ala Leu Glu Leu Lys Asp Ala
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Glu Glu Pro Gln Ser Asp Pro Ser Val
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Gln Glu Thr Phe Ser Asp Leu
1 5

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Pro Glu Ala Ala Pro Pro Val
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<400> 643

Pro Glu Val Gly Ser Asp Cys Thr Thr Ile His Tyr
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Glu Glu Glu Asn Leu Arg Lys Lys Gly
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Leu Glu Ser Glu Phe Gln Ala Ala Ile
1 5

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Leu Glu Ser Glu Phe Gln Ala Ala Ile Ser Arg Lys Met
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Ser Glu Phe Gln Ala Ala Ile Ser Arg Lys Met
1 5 10

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Ser Glu Phe Gln Ala Ala Ile Ser Arg Lys Met Val
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Ser Glu Tyr Leu Gln Leu Val Phe Gly
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Ser Glu Tyr Leu Gln Leu Val Phe Gly Ile
1 5 10

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Ser Glu Tyr Leu Gln Leu Val Phe Gly Ile Glu Val Val
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Tyr	Glu	Phe	Leu	Trp	Gly	Pro	Arg	Ala	Leu	Ile
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Glu Glu Gly Pro Arg Met Phe Pro Asp Leu

1 5 10

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<400> 658

Ala Glu Met Leu Glu Ser Val Leu
1 5

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<400> 659

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<400> 660

Ser Glu Tyr Leu Gln Leu Val Phe
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Val Glu Val Val Pro Ile Ser His Leu Tyr Ile
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Glu Glu Lys Ile Trp Glu Glu Leu Ser Met
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Glu Glu Leu Ser Met Leu Glu Val Phe Glu Gly
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Tyr Glu Phe Leu Trp Gly Pro Arg Ala
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Tyr Glu Phe Leu Trp Gly Pro Arg Ala Leu
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Leu Glu Ala Arg Gly Glu Ala Leu
1 5

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1 5 10

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Leu Glu Ala Arg Gly Glu Ala Leu Gly Leu Val
1 5 10

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Val Glu Leu Val His Phe Leu Leu
1 5

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Val Glu Leu Val His Phe Leu Leu Leu
1 5

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Arg Glu Pro Val Thr Lys Ala Glu Met
1 5

<210> 674
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Arg Glu Pro Val Thr Lys Ala Glu Met Leu

1 5 10

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Ile Glu Val Val Glu Val Val Pro Ile
1 5

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Val Glu Val Val Pro Ile Ser His Leu
1 5

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Val Glu Val Val Pro Ile Ser His Leu Tyr Ile Leu
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Val Glu Val Val Pro Ile Ser His Leu Tyr Ile Leu Val
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Trp Glu Glu Leu Ser Met Leu Glu Val
1 5

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Glu Glu Leu Ser Met Leu Glu Val Phe
1 5

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Gly Glu Pro His Ile Ser Tyr Pro Pro Leu
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Glu Glu Gly Leu Glu Ala Arg Gly Glu Ala Leu
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Gly Glu Ala Leu Gly Leu Val Gly Ala
1 5

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Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala
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Gln Glu Glu Glu Gly Pro Arg Met
1 5

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Gln Glu Glu Glu Gly Pro Arg Met Phe
1 5

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Val Glu Leu Val His Phe Leu Leu Leu Lys Tyr
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Val Glu Val Val Pro Ile Ser His Leu Tyr
1 5 10

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Phe Glu Gly Arg Glu Asp Ser Val Phe
1 5

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Glu Glu Gly Leu Glu Ala Arg Gly Glu Ala
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Leu Glu Ala Arg Gly Glu Ala Leu Gly
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Val Glu Val Thr Leu Gly Glu Val Pro Ala Ala
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Ser Glu Phe Gln Ala Ala Ile
1 5

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<210> 702

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1 5 10

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Pro Glu Glu Gly Leu Glu Ala Arg Gly
1 5

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Glu Glu Gln Gln Thr Ala Ser Ser Ser Ser Thr
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Gln Glu Glu Glu Gly Pro Arg Met Phe Pro Asp Leu
1 5 10

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Glu Glu Glu Gly Pro Arg Met Phe
1 5

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Ser Glu Tyr Leu Gln Leu Val
1 5

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Pro Glu Glu Lys Ile Trp Glu Glu Leu
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Gly Glu Pro His Ile Ser Tyr
1 5

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Pro Glu Glu Gly Leu Glu Ala Arg Gly Glu Ala
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Glu Glu Gly Leu Glu Ala Arg Gly Glu Ala Leu Gly Leu
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Asp Glu Gly Ser Ser Asn Gln Glu Glu Glu Gly
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Pro Glu Glu Lys Ile Trp Glu Glu Leu Ser Met
1 5 10

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Trp Glu Glu Leu Ser Met Leu
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Trp Glu Glu Leu Ser Met Leu
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Trp Glu Glu Leu Ser Met Leu
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Ala Glu Leu Val His Phe Leu Leu Leu
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Met Glu Val Asp Pro Ile Gly His Leu
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Met Glu Val Asp Pro Ile Gly His Leu Tyr Ile
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Ala Glu Leu Val His Phe Leu Leu
1 5

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Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr
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Glu Glu Lys Ile Trp Glu Glu Leu Ser Val
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Trp Glu Glu Leu Ser Val Leu Glu Val Phe
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Val Glu Thr Ser Tyr Val Lys Val Leu
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Glu Glu Gly Pro Ser Thr Phe Pro Asp Leu
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Glu Glu Lys Ile Trp Glu Glu Leu Ser Val Leu
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Glu Glu Leu Ser Val Leu Glu Val Phe
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Glu Glu Glu Gly Pro Ser Thr Phe
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Glu Glu Glu Gly Pro Ser Thr Phe Pro Asp Leu
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Trp Glu Glu Leu Ser Val Leu Glu Val
1 5

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Phe Glu Gly Arg Glu Asp Ser Ile Leu
1 5

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Phe Glu Gly Arg Glu Asp Ser Ile Leu Gly
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Gln Glu Ala Ala Ser Ser Ser Ser Thr
1 5

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Arg Glu Gly Asp Cys Ala Pro Glu Glu Lys Ile
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Phe Glu Gly Arg Glu Asp Ser Ile
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<400> 746

Met Gln Leu Phe His Leu Cys Leu Ile Ile Ser Cys Ser Cys Pro Thr
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Val Gln Ala Ser Lys Leu Cys Leu Gly Trp Leu Trp Gly Met Asp Ile
20 25 30

Asp Pro Tyr Lys Glu Phe Gly Ala Thr Val Glu Leu Leu Ser Phe Leu
35 40 45

Pro Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp Thr Ala Ser
50 55 60

Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys Ser Pro His
65 70 75 80

His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu Met Thr
85 90 95

Leu Ala Thr Trp Val Gly Val Asn Leu Glu Asp Pro Ala Ser Arg Asp
100 105 110

Leu Val Val Ser Tyr Val Asn Thr Asn Met Gly Leu Lys Phe Arg Gln
115 120 125

Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg Glu Thr Val
130 135 140

Ile Glu Tyr Leu Val Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala
145 150 155 160

Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu Pro Glu Thr Thr
165 170 175

Val Val Arg Arg Arg Gly Arg Ser Pro Arg Arg Arg Thr Pro Ser Pro
180 185 190

Arg Arg Arg Arg Ser Gln Ser Pro Arg Arg Arg Arg Ser Gln Ser Arg
195 200 205

Glu Ser Gln Cys
210

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Lys Val Phe Pro Tyr Ala Leu Ile Asn Lys

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Ser Thr Leu Pro Glu Thr Tyr Val Val Arg Arg
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<213> Homo sapiens

<400> 751

Tyr Thr Ala Val Val Pro Leu Val Tyr
1 5

<210> 752
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Alcon peptide

<400> 752

Tyr Leu Glu Pro Ala Ile Ala Lys Tyr
1 5

<210> 753

<211> 9

<212> PRT

<213> Unknown

<220>

<223> A24con peptide

<400> 753

Ala Tyr Ile Asp Asn Tyr Asn Lys Phe
1 5

<210> 754

<211> 394

<212> PRT

<213> Homo sapiens

<400> 754

Met Glu Ser Pro Ser Ala Pro Pro His Arg Trp Cys Ile Pro Trp Gln
1 5 10 15

Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Pro Pro Thr
20 25 30

Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly
35 40 45

Lys Glu Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly
50 55 60

Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile
65 70 75 80

Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser
85 90 95

Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile
100 105 110

Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp
115 120 125

Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr Pro Glu Leu
130 135 140

Pro	Lys	Pro	Ser	Ile	Ser	Ser	Asn	Asn	Ser	Lys	Pro	Val	Glu	Asp	Lys	145	150	155	160
Asp	Ala	Val	Ala	Phe	Thr	Cys	Glu	Pro	Glu	Thr	Gln	Asp	Ala	Thr	Tyr	165	170	175	
Leu	Trp	Trp	Val	Asn	Asn	Gln	Ser	Leu	Pro	Val	Ser	Pro	Arg	Leu	Gln	180	185	190	
Leu	Ser	Asn	Gly	Asn	Arg	Thr	Leu	Thr	Leu	Phe	Asn	Val	Thr	Arg	Asn	195	200	205	
Asp	Thr	Ala	Ser	Tyr	Lys	Cys	Glu	Thr	Gln	Asn	Pro	Val	Ser	Ala	Arg	210	215	220	
Arg	Ser	Asp	Ser	Val	Ile	Leu	Asn	Val	Leu	Tyr	Gly	Pro	Asp	Ala	Pro	225	230	235	240
Thr	Ile	Ser	Pro	Leu	Asn	Thr	Ser	Tyr	Arg	Ser	Gly	Glu	Asn	Leu	Asn	245	250	255	
Leu	Ser	Cys	His	Ala	Ala	Ser	Asn	Pro	Pro	Ala	Gln	Tyr	Ser	Trp	Phe	260	265	270	
Val	Asn	Gly	Thr	Phe	Gln	Gln	Ser	Thr	Gln	Glu	Leu	Phe	Ile	Pro	Asn	275	280	285	
Ile	Thr	Val	Asn	Asn	Ser	Gly	Ser	Tyr	Thr	Cys	Gln	Ala	His	Asn	Ser	290	295	300	
Asp	Thr	Gly	Leu	Asn	Arg	Thr	Thr	Val	Thr	Thr	Ile	Thr	Val	Tyr	Ala	305	310	315	320
Glu	Pro	Pro	Lys	Pro	Phe	Ile	Thr	Ser	Asn	Asn	Ser	Asn	Pro	Val	Glu	325	330	335	
Asp	Glu	Asp	Ala	Val	Ala	Leu	Thr	Cys	Glu	Pro	Glu	Ile	Gln	Asn	Thr	340	345	350	
Thr	Tyr	Leu	Trp	Trp	Val	Asn	Asn	Gln	Ser	Leu	Pro	Val	Ser	Pro	Arg	355	360	365	
Leu	Gln	Leu	Ser	Asn	Asp	Asn	Arg	Thr	Leu	Thr	Leu	Leu	Ser	Val	Thr	370	375	380	

Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly
385 390

<210> 755
<211> 102
<212> PRT
<213> Homo sapiens

<400> 755

Pro Asp Ser Ser Tyr Leu Ser Gly Ala Asn Leu Asn Leu Ser Cys His
1 5 10 15

Ser Ala Ser Asn Pro Ser Pro Gln Tyr Ser Trp Arg Ile Asn Gly Ile
20 25 30

Pro Gln Gln His Thr Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn
35 40 45

Asn Asn Gly Thr Tyr Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg
50 55 60

Asn Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr Ser
65 70 75 80

Pro Gly Leu Ser Ala Gly Ala Thr Val Gly Ile Met Ile Gly Val Leu
85 90 95

Val Gly Val Ala Leu Ile
100

<210> 756
<211> 19
<212> PRT
<213> Homo sapiens

<400> 756

Ser Ala Asn Arg Ser Asp Pro Val Thr Leu Asp Val Leu Tyr Gly Pro
1 5 10 15

Asp Thr Pro

<210> 757
<211> 550
<212> PRT
<213> Homo sapiens

<400> 757

Met Pro Asn Gln Ala Gln Met Arg Ile Leu Lys Glu Thr Glu Leu Arg
1 5 10 15

Lys Val Lys Val Leu Gly Ser Gly Ala Phe Gly Thr Val Tyr Lys Gly
20 25 30

Ile Trp Ile Pro Asp Gly Glu Asn Val Lys Ile Pro Val Ala Ile Lys
35 40 45

Val Leu Arg Glu Asn Thr Ser Pro Lys Ala Asn Lys Glu Ile Leu Asp
50 55 60

Glu Ala Tyr Val Met Ala Gly Val Gly Ser Pro Tyr Val Ser Arg Leu
65 70 75 80

Leu Gly Ile Cys Leu Thr Ser Thr Val Gln Leu Val Thr Gln Leu Met
85 90 95

Pro Tyr Gly Cys Leu Leu Asp His Val Arg Glu Asn Arg Gly Arg Leu
100 105 110

Gly Ser Gln Asp Leu Leu Asn Trp Cys Met Gln Ile Ala Lys Gly Met
115 120 125

Ser Tyr Leu Glu Asp Val Arg Leu Val His Arg Asp Leu Ala Ala Arg
130 135 140

Asn Val Leu Val Lys Ser Pro Asn His Val Lys Ile Thr Asp Phe Gly
145 150 155 160

Leu Ala Arg Leu Leu Asp Ile Asp Glu Thr Glu Tyr His Ala Asp Gly
165 170 175

Gly Lys Val Pro Ile Lys Trp Met Ala Leu Glu Ser Ile Leu Arg Arg
180 185 190

Arg Phe Thr His Gln Ser Asp Val Trp Ser Tyr Gly Val Thr Val Trp
195 200 205

Glu Leu Met Thr Phe Gly Ala Lys Pro Tyr Asp Gly Ile Pro Ala Arg
210 215 220

Glu Ile Pro Asp Leu Leu Glu Lys Gly Glu Arg Leu Pro Gln Pro Pro
225 230 235 240

Ile Cys Thr Ile Asp Val Tyr Met Ile Met Val Lys Cys Trp Met Ile
245 250 255

Asp Ser Glu Cys Arg Pro Arg Phe Arg Glu Leu Val Ser Glu Phe Ser
260 265 270

Arg Met Ala Arg Asp Pro Gln Arg Phe Val Val Ile Gln Asn Glu Asp
275 280 285

Leu Gly Pro Ala Ser Pro Leu Asp Ser Thr Phe Tyr Arg Ser Leu Leu
290 295 300

Glu Asp Asp Asp Met Gly Asp Leu Val Asp Ala Glu Glu Tyr Leu Val
305 310 315 320

Pro Gln Gln Gly Phe Phe Cys Pro Asp Pro Ala Pro Gly Ala Gly Gly
325 330 335

Met Val His His Arg His Arg Ser Ser Ser Thr Arg Ser Gly Gly Gly
340 345 350

Asp Leu Thr Leu Gly Leu Glu Pro Ser Glu Glu Glu Ala Pro Arg Ser
355 360 365

Pro Leu Ala Pro Ser Glu Gly Ala Gly Ser Asp Val Phe Asp Gly Asp
370 375 380

Leu Gly Met Gly Ala Ala Lys Gly Leu Gln Ser Leu Pro Thr His Asp
385 390 395 400

Pro Ser Pro Leu Gln Arg Tyr Ser Glu Asp Pro Thr Val Pro Leu Pro
405 410 415

Ser Glu Thr Asp Gly Tyr Val Ala Pro Leu Thr Cys Ser Pro Gln Pro
420 425 430

Glu Tyr Val Asn Gln Pro Asp Val Arg Pro Gln Pro Pro Ser Pro Arg
435 440 445

Glu Gly Pro Leu Pro Ala Ala Arg Pro Ala Gly Ala Thr Leu Glu Arg
450 455 460

Pro Lys Thr Leu Ser Pro Gly Lys Asn Gly Val Val Lys Asp Val Phe
465 470 475 480

Ala Phe Gly Gly Ala Val Glu Asn Pro Glu Tyr Leu Thr Pro Gln Gly

•

Ala Phe Gly Gly Ala Val Glu Asn Pro Glu Tyr Leu Thr Pro Gln Gly
145 150 155 160

Gly Ala Ala Pro Gln Pro His Pro Pro Pro Ala Phe Ser Pro Ala Phe
165 170 175

Asp Asn Leu Tyr Tyr Trp Asp Gln Asp Pro Pro Glu Arg Gly Ala Pro
180 185 190

Pro Ser Thr Phe Lys Gly Thr Pro Thr Ala Glu Asn Pro Glu Tyr Leu
195 200 205

Gly Leu Asp Val Pro Val
210

<210> 759
<211> 27
<212> PRT
<213> Homo sapiens

<400> 759

Met Ala Leu Glu Ser Ile Leu Arg Arg Arg Phe Thr His Gln Ser Asp
1 5 10 15

Val Trp Ser Tyr Gly Val Thr Val Trp Glu Leu
20 25

<210> 760
<211> 119
<212> PRT
<213> Homo sapiens

<400> 760

Met Pro Lys Thr Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile
1 5 10 15

Glu Gly Asp Cys Ala Pro Glu Glu Lys Ile Trp Glu Glu Leu Ser Met
20 25 30

Leu Glu Val Phe Glu Gly Arg Glu Asp Ser Val Phe Ala His Pro Arg
35 40 45

Lys Leu Leu Met Gln Asp Leu Val Gln Glu Asn Tyr Leu Glu Tyr Arg
50 55 60

Gln Val Pro Gly Ser Asp Pro Ala Cys Tyr Glu Phe Leu Trp Gly Pro
65 70 75 80

Arg Ala Leu Ile Glu Thr Ser Tyr Val Lys Val Leu His His Thr Leu
85 90 95

Lys Ile Gly Gly Glu Pro His Ile Ser Tyr Pro Pro Leu His Glu Arg
100 105 110

Ala Leu Arg Glu Gly Glu Glu
115

<210> 761

<211> 166

<212> PRT

<213> Homo sapiens

<400> 761

Met Pro Leu Glu Gln Arg Ser Gln His Cys Lys Pro Glu Glu Gly Leu
1 5 10 15

Glu Ala Arg Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala
20 25 30

Thr Glu Glu Gln Glu Ala Ala Ser Ser Ser Thr Leu Val Glu Val
35 40 45

Thr Leu Gly Glu Val Pro Ala Ala Glu Ser Pro Asp Pro Pro Gln Ser
50 55 60

Pro Gln Gly Ala Ser Ser Leu Pro Thr Thr Met Asn Tyr Pro Leu Trp
65 70 75 80

Ser Gln Ser Tyr Glu Asp Ser Ser Asn Gln Glu Glu Glu Gly Pro Ser
85 90 95

Thr Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys
100 105 110

Val Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg Glu
115 120 125

Pro Val Thr Lys Ala Glu Met Leu Gly Ser Val Val Gly Asn Trp Gln
130 135 140

Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Ser Ser Leu Gln Leu
145 150 155 160

Val Phe Gly Ile Glu Leu
165

<210> 762
<211> 15
<212> PRT
<213> Homo sapiens

<400> 762

Lys Leu Leu Thr Gln His Phe Val Gln Glu Asn Tyr Leu Glu Tyr
1 5 10 15

<210> 763
<211> 354
<212> PRT
<213> Homo sapiens

<400> 763

Met Asp Asp Leu Met Leu Ser Pro Asp Asp Ile Glu Gln Trp Phe Thr
1 5 10 15

Glu Asp Pro Gly Pro Asp Glu Ala Pro Arg Met Pro Glu Ala Ala Pro
20 25 30

Pro Val Ala Pro Ala Pro Ala Ala Pro Thr Pro Ala Ala Pro Ala Pro
35 40 45

Ala Pro Ser Trp Pro Leu Ser Ser Ser Val Pro Ser Gln Lys Thr Tyr
50 55 60

Gln Gly Ser Tyr Gly Phe Arg Leu Gly Phe Leu His Ser Gly Thr Ala
65 70 75 80

Lys Ser Val Thr Cys Thr Tyr Ser Pro Ala Leu Asn Lys Met Phe Cys
85 90 95

Gln Leu Ala Lys Thr Cys Pro Val Gln Leu Trp Val Asp Ser Thr Pro
100 105 110

Pro Pro Gly Thr Arg Val Arg Ala Met Ala Ile Tyr Lys Gln Ser Gln
115 120 125

His Met Thr Glu Val Val Arg Arg Cys Pro His His Glu Arg Cys Ser
130 135 140

Asp Ser Asp Gly Leu Ala Pro Pro Gln His Leu Ile Arg Val Glu Gly
145 150 155 160

Asn Leu Arg Val Glu Tyr Leu Asp Asp Arg Asn Thr Phe Arg His Ser
165 170 175

Val Val Val Pro Tyr Glu Pro Pro Glu Val Gly Ser Asp Cys Thr Thr
180 185 190

Ile His Tyr Asn Tyr Met Cys Asn Ser Ser Cys Met Gly Gly Met Asn
195 200 205

Arg Arg Pro Ile Leu Thr Ile Ile Thr Leu Glu Asp Ser Ser Gly Asn
210 215 220

Leu Leu Gly Arg Asn Ser Phe Glu Val Arg Val Cys Ala Cys Pro Gly
225 230 235 240

Arg Asp Arg Arg Thr Glu Glu Glu Asn Leu Arg Lys Lys Gly Glu Pro
245 250 255

His His Glu Leu Pro Pro Gly Ser Thr Lys Arg Ala Leu Pro Asn Asn
260 265 270

Thr Ser Ser Ser Pro Gln Pro Lys Lys Lys Pro Leu Asp Gly Glu Tyr
275 280 285

Phe Thr Leu Gln Ile Arg Gly Arg Glu Arg Phe Glu Met Phe Arg Glu
290 295 300

Leu Asn Glu Ala Leu Glu Leu Lys Asp Ala Gln Ala Gly Lys Glu Pro
305 310 315 320

Gly Gly Ser Arg Ala His Ser Ser His Leu Lys Ser Lys Lys Gly Gln
325 330 335

Ser Thr Ser Arg His Lys Lys Leu Met Phe Lys Thr Glu Gly Pro Asp
340 345 350

Ser Asp

<210> 764

<211> 19

<212> PRT

<213> Homo sapiens

<400> 764

His Ser Gly Thr Ala Lys Ser Val Thr Cys Thr Tyr Ser Pro Ala Leu

1 5 10 15

Asn Lys Met

<210> 765
<211> 102
<212> PRT
<213> Homo sapiens

<400> 765

Met Phe Cys Gln Leu Ala Lys Thr Cys Pro Val Gln Leu Trp Val Asp
1 5 10 15

Ser Thr Pro Pro Pro Gly Thr Arg Val Arg Ala Met Ala Ile Tyr Lys
20 25 30

Gln Ser Gln His Met Thr Glu Val Val Arg Arg Cys Pro His His Glu
35 40 45

Arg Cys Ser Asp Ser Asp Gly Leu Ala Pro Pro Gln His Leu Ile Arg
50 55 60

Val Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp Arg Asn Thr Phe
65 70 75 80

Arg His Ser Val Val Val Pro Tyr Glu Pro Pro Glu Val Gly Ser Asp
85 90 95

Cys Thr Thr Ile His Tyr
100

<210> 766
<211> 9
<212> PRT
<213> Unknown

<220>
<223> DR7 preferred motif

<220>
<221> misc_feature
<222> (1)..(1)
<223> Xaa may be Met, Phe, Leu, Ile, Val, Trp or Tyr

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa may be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa may be Ile, Val, Met, Ser, Ala, Cys, Thr, Pro or Leu

<220>
<221> misc_feature
<222> (8)..(8)
<223> Xaa may be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (9)..(9)
<223> Xaa may be Ile or Val

<400> 766

Xaa Met Trp Ala Xaa Xaa Met Xaa Xaa
1 5

<210> 767
<211> 9
<212> PRT
<213> Unknown

<220>
<223> DR7 deleterious motif

<220>
<221> misc_feature
<222> (1)..(1)
<223> Xaa may be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa may be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (5)..(6)
<223> Xaa may be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa may be Gly, Arg or Asp

<400> 767

Xaa Cys Xaa Gly Xaa Xaa Xaa Asn Gly
1 5